

WHAT IS CLAIMED IS:

1 1. A business device capable of transmitting and
2 receiving OID (Order Information Data) indicating individual
3 equipment status in MIB (Management Information Base)
4 information indicating device status of said business device
5 through an Internet to and from an information device connected
6 to said Internet,

7 wherein when said OID is transmitted and received between
8 said business device and said information device, a
9 communication protocol that can be handled on said Internet is
10 used, and said OID is described as tag information in a
11 language compatible with said communication protocol.

1 2. A business device according to claim 1, wherein said
2 communication protocol is either one of HTTP (Hyper Text
3 Transfer Protocol) and FTP (File Transfer Protocol), and said
4 language is XML (Extensible Markup Language).

1 3. A business device according to claim 1, comprising:
2 an MIB information storage section that stores MIB
3 information indicating device status of said business device;
4 an HTTP data processing section that extracts OID
5 corresponding to an OID request command from said information
6 device from said MIB information storage section, processes
7 said OID into a form that can be communicated via HTTP, and
8 describes said OID as tag information in XML; and

9 TCP/IP (Transmission Control Protocol/Internet Protocol)
10 that transmits the OID processed by said HTTP data processing
11 section via a standard protocol used on the Internet.

1 4. A business device capable of transmitting and
2 receiving OID (Order Information Data) indicating individual
3 equipment status in MIB (Management Information Base)
4 information indicating device status of said business device to
5 and from a first information device connected to an Internet
6 and a second information device connected to an intranet, said
7 business device comprising:

8 an MIB information storage section that stores MIB
9 information indicating device status of said business device;

10 a communication route judging section that judges whether
11 a communication route is the intranet or the Internet;

12 an SNMP (Simple Network Management Protocol) data
13 processing section that extracts, when the communication route
14 is said intranet, OID corresponding to an OID request command
15 from said second information device from said MIB information
16 and processes said OID into a form that can be communicated via
17 SNMP;

18 an HTTP (Hyper Text Transfer Protocol) data processing
19 section that extracts, when the communication route is said
20 Internet, OID corresponding to an OID request command from said
21 first information device from said MIB information, processes
22 said OID into a form that can be communicated via HTTP, and
23 describes said OID as tag information in XML ((Extensible

24 Markup Language); and
25 a TCP/IP (Transmission Control Protocol/Internet
26 Protocol) that transmits the OID processed by said SNMP data
27 processing section or said HTTP data processing section via a
28 standard protocol used on the Internet.

1 5. A business device according to claim 4, wherein said
2 HTTP data processing section includes:

3 an OID detection section that detects said OID
4 communicated via said Internet and sends said OID to an MIB
5 processing section; and

6 an XML data preparation section that describes the OID
7 obtained from said MIB processing section as tag information in
8 XML.

1 6. An information device that transmits an OID (Order
2 Information Data) request command to a business device to
3 request transmission of OID indicating individual equipment
4 status in MIB (Management Information Base) information
5 indicating device status of said business device,

6 wherein when said information device is connected to an
7 Internet, HTTP is used as a communication protocol for
8 communication between said business device and said information
9 device, and

10 said information device transmits said OID request
11 command to said business device as tag information in XML
12 (Extensible Markup Language),

13 so that said business device transmits OID indicating
14 equipment status thereof as XML data to said information device
15 on a basis of said tag information in XML.

1 7. A business device information management system
2 including an information device and a business device, said
3 information device transmitting an OID (Order Information Data)
4 request command to said business device to request transmission
5 of OID indicating individual equipment status in MIB
6 (Management Information Base) information indicating device
7 status of said business device, said business device
8 transmitting OID corresponding to said OID request command to
9 said information device,

10 wherein when said information device is connected to an
11 Internet, HTTP is used as a communication protocol for
12 communication between said business device and said information
13 device,

14 said information device transmits said OID request
15 command to said business device as tag information in XML
16 (Extensible Markup Language), and

17 said business device transmits OID indicating equipment
18 status thereof as XML data to said information device on a
19 basis of said tag information in XML.

1 8. A business device information management method
2 wherein OID (Order Information Data) indicating individual
3 equipment status in MIB (Management Information Base)

4 information indicating device status of a business device is
5 transmitted to an information device connected to an Internet
6 to perform information management of said business device, said
7 method comprising:

8 a step in which said business device accesses said
9 information device via a communication protocol using HTTP
10 (Hyper-Text Transfer Protocol);

11 a step in which said information device transmits an OID
12 request command to said business device as tag information in
13 XML (Extensible Markup Language) in response to the access from
14 said business device;

15 a step in which said business device describes OID
16 corresponding to said OID request command in XML and transmits
17 said OID to said information device; and

18 a step in which said information device acquires
19 equipment status of said business device on a basis of the
20 received OID.

1 9. An information management program for a business
2 device capable of transmitting and receiving OID (Order
3 Information Data) indicating individual equipment status in MIB
4 (Management Information Base) information indicating device
5 status of said business device through an Internet to and from
6 an information device connected to said Internet, said program
7 instructing a computer to execute the steps of:

8 processing an OID request command from said information
9 device;

10 extracting OID corresponding to the OID request command
11 from an MIB information storage section and describing said OID
12 as tag information in XML (Extensible Markup Language); and
13 transmitting the OID described as tag information in XML
14 via a standard protocol used on the Internet.